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Amendments to the Claims

- 1. (Original) A journal bearing system comprising:
 - a bushing; and
 - a journal pin within the bushing,

wherein at least one of the bushing and journal pin has an engagement surface with an engagement length comprising a substrate material and a solid lubricant, a concentration of the solid lubricant varying along the engagement length.

- 2. (Original) The system of claim 1 wherein:
- the concentration is higher near ends of the engagement length than in an intermediate portion.
- (Original) The system of claim 1 wherein: the concentration varies by at least 50% of a maximum value along said engagement length.
- (Original) The system of claim 1 wherein:
 the base material comprises a coating applied to a substrate.
- (Original) The system of claim 1 wherein:
 the substrate comprises a copper-based material; and
 the solid lubricant comprises a metal.
- (Original) The system of claim 5 wherein:
 the solid lubricant metal comprises lead.
- (Original) The system of claim 6 wherein the concentration is: greater than 30% at first and second locations near first and second ends of the engagement length; and
 - 10-30% in an third location, between the first and second locations.

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(Original) The system of claim 6 wherein the concentration is:
 greater than 35% at first and second locations within first and second terminal 20% of the engagement length; and

10-30% over a majority of a central 50% of the length.

- 9. (Original) The system of claim 1 supporting a gear in a turbofan transmission.
- 10. (Original) A hydrodynamic bearing apparatus comprising:a bushing;a journal pin; andmeans for providing extended operation after a lubricant loss.
- 11. (Original) The apparatus of claim 10 wherein:
 the means comprise a longitudinally-varying lead concentration within a copper matrix.
- 12. (Withdrawn) A method for preparing a lining for a hydrodynamic bearing comprising: applying a solid lubricant along the lining, the solid lubricant being applied with concentration that varies along a length of the lining.
- 13. (Withdrawn) The method of claim 12 wherein: the applying of the solid lubricant comprises sputtering.
- 14. (Withdrawn) The method of claim 12 wherein:
 the applying of the solid lubricant is simultaneous with the application of a base material.
- 15. (New) The system of claim 1 wherein the journal pin has at least one lubrication passageway.

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- 16. (New) The system of claim 15 wherein the at least one lubrication passageway extends to the engagement surface.
- 17. (New) The system of claim 5 wherein the journal pin has at least one lubrication passageway.
- 18. (New) The system of claim 17 wherein the at least one lubrication passageway extends to the engagement surface.
- 19. (New) The system of claim 7 wherein the journal pin has at least one lubrication passageway.
- 20. (New) The system of claim 19 wherein the at least one lubrication passageway extends to the engagement surface.
- 21. (New) The apparatus of claim 10 wherein the journal pin has at least one lubrication passageway.
- 22. (New) The system of claim 10 wherein the means is on the bushing and the bushing is formed by a coating comprising substrate material and solid lubricant on an interior cylindrical surface of a steel gear in a geared turbofan transmission.
- 23. (New) The system of claim 10 wherein the means comprises a coating of the bushing and the bushing is a gear in a geared turbofan transmission.